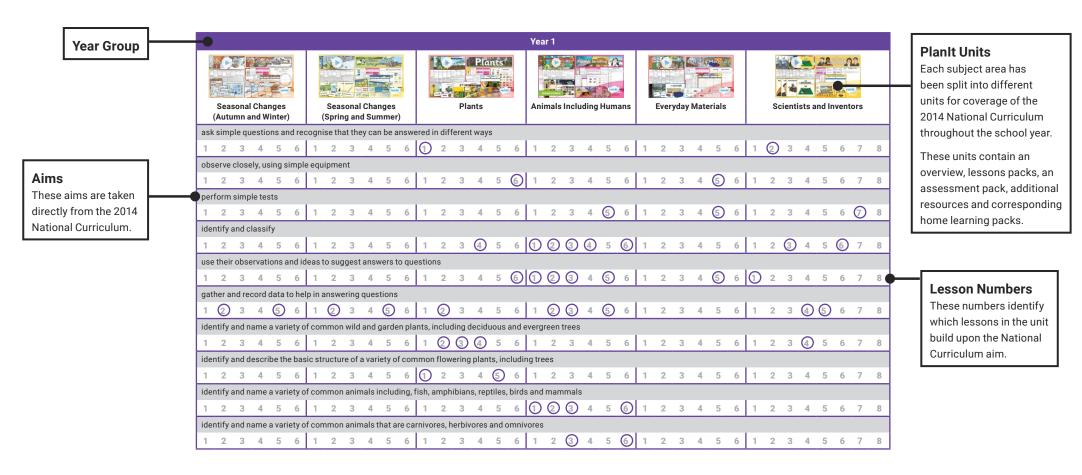
## Science

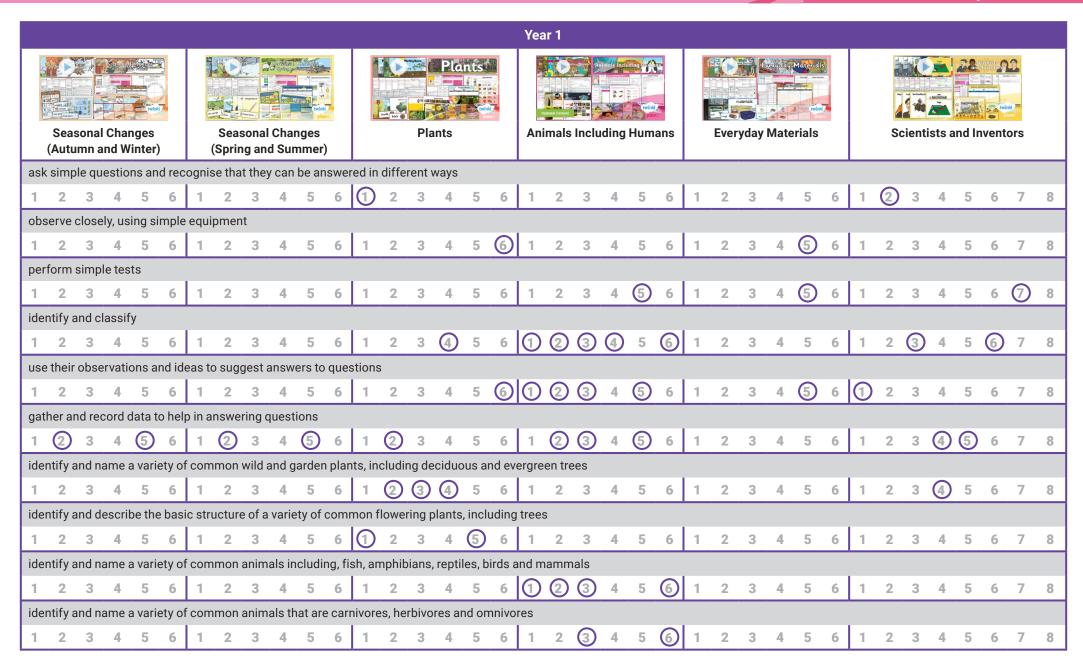
## **Subject Overview**

Welcome to Planit Science! These units have been created to develop children's enthusiasm for and knowledge and understanding of science. With a key emphasis on hands-on learning, children will develop their investigation skills while securing their grasp of key scientific principles. Children will have the opportunity to discover more about famous scientists and their discoveries, deepening their own understanding as they do so. Through these engaging and in-depth units, children will foster a love of science and ensure complete curriculum coverage.









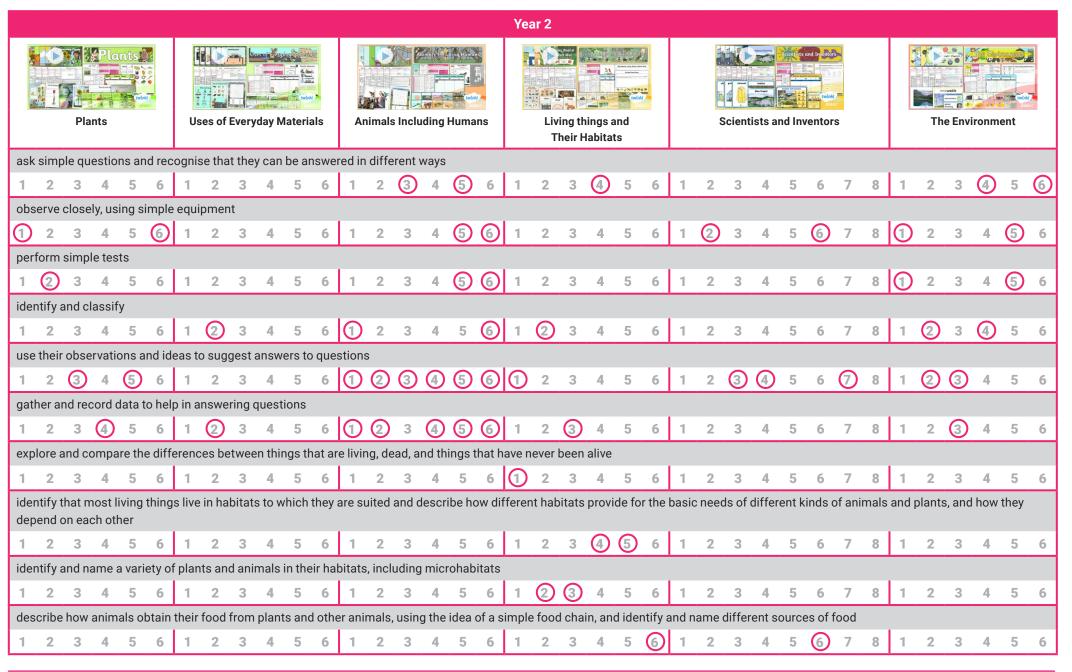




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des	cribe	the s	imple	phys	sical p	orope	rties	of a	variet	y of e	everyc	lay m	ateria	ıls																							
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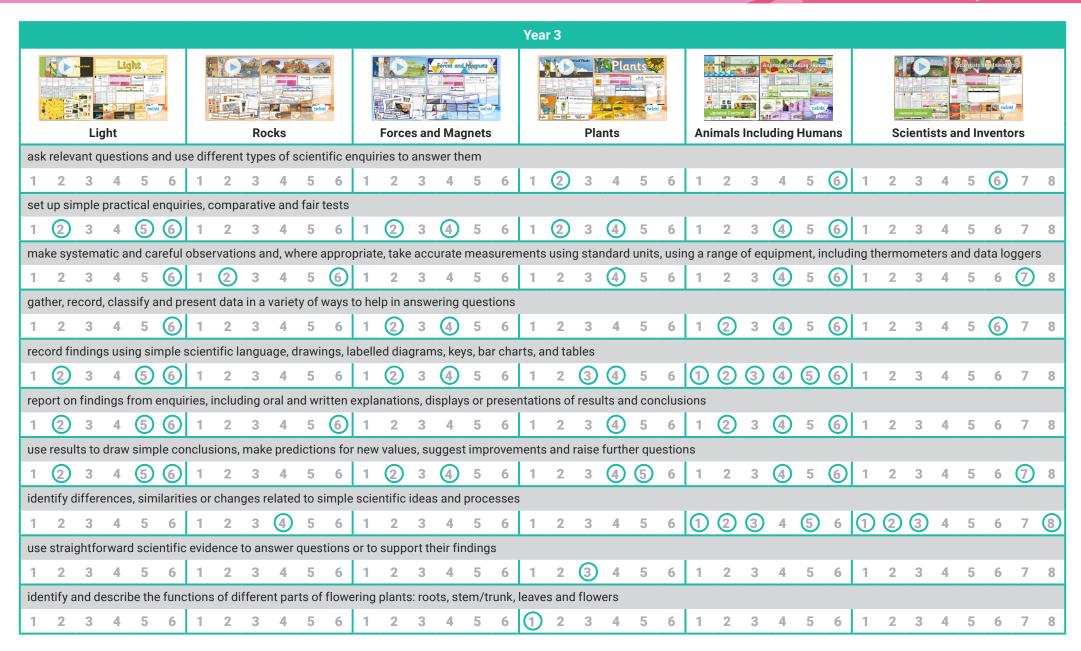




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notio	e th	at an	nimals	s, incl	uding	, hum	nans,	have	offsp	oring	whicl	n grov	v into	adul	ts											'											
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inve	stiga	ate th	e way	in wł	nich v	vater	is tra	nspor	ted v	vithin	plant	ts																									
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ехр	lore t	he pa	art tha	at flov	vers p	olay i	n the	life cy	cle o	f flow	ering	plan	ts, ind	cludir	ng pol	linati	on, s	eed fo	orma	tion a	nd se	ed di	spers	al													
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ideı	ntify t	that a	nima	ls, inc	ludin	g hur	mans	, need	theı	right t	ypes	and a	amou	nt of	nutrit	ion, a	nd th	at the	еу са	nnot ı	make	their	own	food;	they	get ni	utritio	n fro	m wh	at th	ey eat	t					
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ideı	ntify t	that h	umar	ns and	d som	ne oth	ner an	imals	have	e skel	etons	and	muso	eles f	or sup	port,	, prot	ectior	n and	move	emen	t															
1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	<u>(5)</u>	6	1	2	3	4	5	6	7	8
con	npare	and	group	o toge	ether	diffe	rent k	inds c	f roc	ks on	the b	oasis	of the	eir ap	peara	nce a	and s	imple	phys	sical p	rope	rties															
1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	<b>(5)</b>	6	7	8
des	cribe	in siı	mple	terms	how	foss	ils are	e form	ied w	/hen t	hings	that	have	lived	are tı	appe	d wit	hin ro	ck																		
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not	ce th	at lig	ht is r	eflec	ted fr	om s	urfac	es																													
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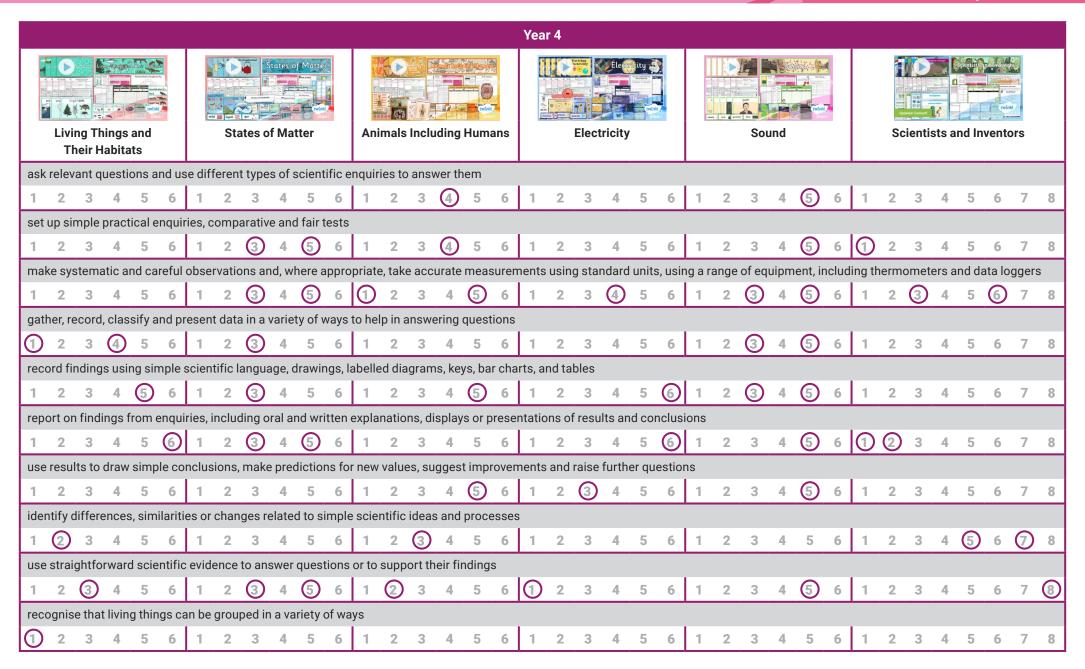




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no <sup>-</sup>	ice th	nat s	ome f	orces	need	cont	tact be	etwee	en two	o obj	ects,	but m	agne	etic fo	rces	can a	ct at	a dis	tance																		
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ob	serve	how	magı	nets a	ttract	or re	epel e	ach o	ther a	ınd a	ttract	som	e ma	terials	and	not c	thers	5																			
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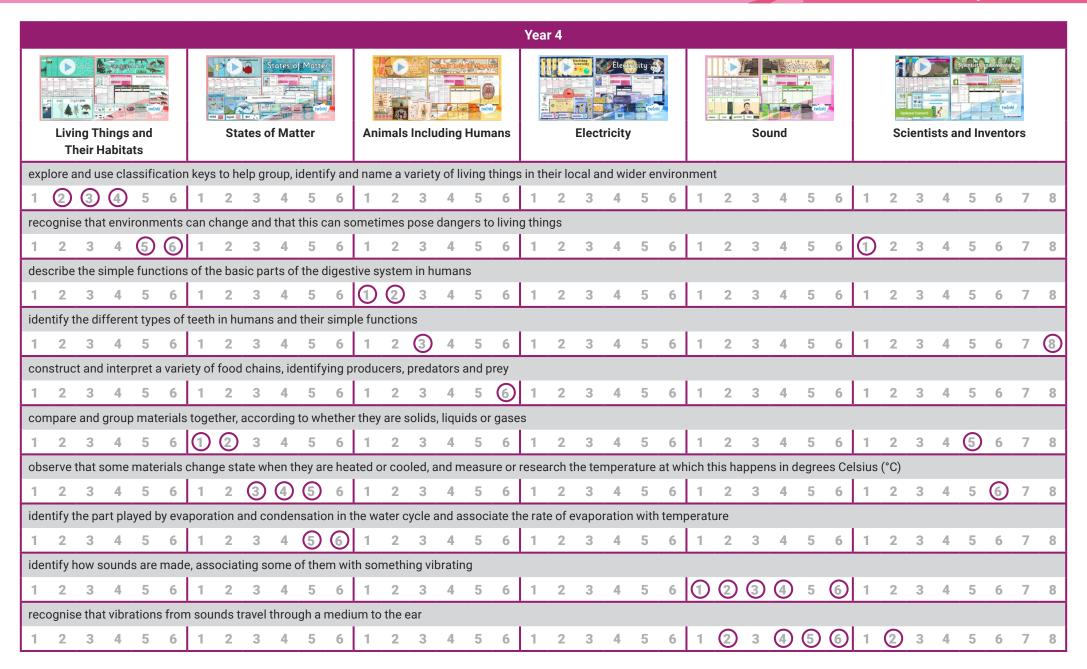
















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rec	ognis	e tha	t sou	nds g	et fai	inter a	as the	e dist	ance	from	the so	ound s	sourc	e inc	rease	es																					
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cor	struc	ct a si	imple	serie	s ele	ctrica	l circ	uit, ic	dentif	ying a	and na	aming	its b	asic	oarts,	, inclu	ding	cells,	wire	s, bull	bs, sv	vitche	es and	d buz	zers												
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ide	ntify	whetl	ner or	not a	lamı	p will	light	in a s	imple	serie	es circ	cuit, b	ased	on w	hethe	er or r	ot th	e lam	ıp is p	oart o	f a co	mple	te loc	p wi	th a ba	attery	,										
1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	7	8
rec	ognis	e tha	t a sv	vitch o	pen	s and	clos	es a c	circuit	and	assoc	ciate t	his w	ith w	hethe	er or n	ot a	lamp	lights	s in a	simpl	le ser	ies ciı	rcuit													
1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	7	8
rec	ognis	se sor	ne co	mmo	n coi	nduct	ors a	nd in	sulato	ors, a	nd as	socia	te me	etals	with b	eing	good	cond	lucto	rs																	
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kno	w tha	t son	ne ma	ateria	ls wil	l diss	olve	in liqu	iid to	form	a sol	ution,	and o	descr	ibe h	ow to	reco	over a	subs	stance	e fron	n a sc	olution	1													
1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	<u>(5)</u>	6	1	2	3	4	5	6	1	2	3	4	5	6	7	8
use	know	ledg	e of s	olids	, liqui	ds an	d ga	ses to	deci	de ho	ow mi	xture	s mig	ht be	sepa	rated	d, incl	luding	thro	ugh f	ilterin	ıg, sie	eving	and e	vapo	rating	I										
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give	reas	ons,	based	d on e	vider	nce fr	om c	ompa	rativ	e and	l fair t	ests, i	for th	e par	ticula	ar use	es of	every	day n	nateri	als, ir	ncludi	ing m	etals,	WOO	d and	plas	tic									
1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	(1)	(2)	(3)	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	7	8
den	nonst	rate 1	hat d	issol	ving,	mixin	g and	d chai	nges	of sta	ate ar	e reve	rsible	cha	nges																						
1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	<b>(</b> 4 <b>)</b>	(5)	6	1	2	3	4	5	6	1	2	3	4	5	6	7	8
exp	lain th	nat so	ome o	chang	es re	sult ii	n the	form	ation	of ne	w ma	terial	s, and	d that	this	kind (	of ch	ange i	s not	t usua	ally re	versil	ole, in	cludi	ng ch	ange	s ass	ociat	ed wi	th bu	ırning	and	the a	ction	of ac	eid or	1
																					·																
1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	7	8
des	cribe	the n	nover	nent	of the	e Eart	h, an	d oth	er pla	nets,	relati	ive to	the S	un in	the s	olar s	syste	m																			
1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	7	8
des	cribe	the n	nover	nent	of the	e Moc	n rel	ative	to the	Eart	h																										
use knowledge of solids, liquids  1 2 3 4 5 6  give reasons, based on evidence  1 2 3 4 5 6  demonstrate that dissolving, m  1 2 3 4 5 6  explain that some changes result bicarbonate of soda		1	2	3	4	5	<b>6</b>	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	7	8				
des	cribe	the S	un. F	arth a	and M	loon :	as an	proxi	mate	ly spl	nerica	al bod	ies																								
1			/L	5			2	3	Δ.	5	6	1	2	3	Λ	5	6	1	2	3	4	5	6	1	2	3	Л	5	6	1	2	3	Λ	5	6	7	8
,	_	3	~	J	O		_	3	**	5	O	'	_	3		5	O		_	3		5	U		_	3		5	O		_	3	**	5	O	//	0





												·						Yea	r 5		·																
7,500 ° N. Z.		_	Their Hab				Ea	rth ar	Earth and Spa	d Space				For	ces	twinkl	No.	P	-		and Ch	_	es	Ani	mals	Inclu	ding	twink	ans		Sc	eientis	sts a	nd In	twind	ors	
use	the i	dea o	f the	Earth	's rot	ation	to ex	plain	day a	nd ni	ght a	nd the	е арр	arent	move	emen	t of t	he su	n acr	oss tl	ne sky	/															
1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	7	8
ехр	lain tl	hat uı	nsup	porte	d obje	ects f	all to	wards	s the I	Earth	beca	ause o	f the	force	of gr	avity	actin	g be	weer	the I	Earth	and t	he fa	lling	object	:											
1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	7	8
ider	ntify t	he ef	fects	of air	resis	stanc	e, wa	iter re	sistaı	nce a	nd fri	iction,	that	act b	etwee	en mo	oving	surfa	aces																		
1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	<b>(5)</b>	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	7	8
rec	ognis	e tha	t som	ne me	chan	isms,	inclu	uding	lever	s, pul	leys a	and ge	ears, a	allow	a sm	aller 1	force	to ha	ive a (	great	er effe	ect															
1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	7	8
find	l out a	about	t the \	work (	of nat	uralis	sts ar	nd ani	imal b	ehav	iouri	sts (no	on-st	atuto	ry)																						
1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	7	8
des	cribe	how	scier	ntific i	deas	have	char	nged o	over ti	ime (r	non-s	statuto	ory)																								
1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	(3)	4	5	6	7	8





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												on an	Section States	twinkleritan	ce		Financia de la constancia de la constanc	Elect	Elect	twinkl				-	nings labita		I And		Scien	ntists	and I	nventors	winkl	
plan different types of scientific enquiries to answer questions,												reco	gnisir	ng and	d cont	trollin	g vari	ables	wher	re nec	essa	ry						<u> </u>						
1 2 3	3 4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	7
take measur	iremen	ts, usir	ng a ra	ange o	of scie	entifi	c equi	pmen	ıt, wit	h incr	easir	ng acc	curac	y and	preci	sion,	takin	g repe	eat rea	adings	s whe	en app	ropri	ate										
1 2 3	3 4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	7
record data	and re	sults c	of incr	easin	g com	plex	ity usi	ing sc	ientif	ic dia	gram	ıs and	l labe	ls, cla	ssific	cation	keys	, table	es, sc	atter g	graph	ıs, baı	and	line g	raphs	;								
1 2 3	3 4	5	6	1	2	3	4	<u>(5)</u>	6	1	2	3	4	5	6	1	2	3	4	<u>(5)</u>	6	1	2	3	4	5	6	1	2	3	4	5	6	7
use test resi	ults to	make	predic	tions	to se	t up f	urthe	r com	parat	tive aı	nd fai	r test	S																					
1 2 3	3 4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	7
report and p other preser		_	dings	from	enqu	iries,	inclu	ding c	conclu	usion	s, cau	ısal re	elatio	nships	s and	expla	natio	ns of	and o	degree	e of t	rust ir	ı resu	lts, in	oral a	and w	ritter	form	is suc	ch as	displa	ays a	nd	
1 2 3	3 4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	7
identify scie	entific (	eviden	ce tha	t has	been	used	l to su	pport	or re	fute i	deas	or arg	gume	nts																				
1 2 3	3 4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	7
describe how and animals		g thing	s are	class	ified i	nto b	road (	group	s acc	ordin	g to c	omm	on ob	serva	able c	harac	cteris	tics a	nd ba	sed o	n sin	nilariti	es an	d diff	erenc	es, ir	ncludi	ng mi	icro-o	rgani	isms,	plant	ts	
1 2 3	3 4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	<b>(5)</b>	6	1	2	3	4	5	6	7
give reasons	s for cl	assifyi	ing pla	ants a	ınd an	imal	s base	ed on	spec	ific cł	narac	terist	ics																					
1 2 3	3 4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	<b>(5)</b>	6	1	2	3	4	5	6	7
identify and	l name	the ma	ain pa	rts of	the h	umar	n circu	ulator	y syst	tem, a	and d	escrib	e the	funct	tions	of the	hear	t, blo	od ve	ssels	and l	olood												
1 2 3	3 4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	7
recognise th	he imp	act of o	diet, e	xercis	se, dru	ıgs a	nd life	estyle	on th	e way	thei	r bodi	es fu	nctior	า																			
1 2 3	3 4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	7





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Aı	nimals	s Inclu	Animals Inc	twink twink	ans	7 8		reflect	ght	nt winki	e de la constante de la consta	Ev	volutio	on an	Svohski Exhant	twink	ice			Principle of the state of the s	Elect	twinkl plan				ng Th	_				Scier	ntists	and	Inven	twinkd	
des			ays ii		h nut	rients			are tr	•	orted	withi	n anir	nals,	includ	ding h	umar	ns				_		_			4	_		_						
7	2	the ways in which  Including Human  the ways in which  Including things  Including t			6	1 (a aba	2	3	4	5 and th	6 at fac	l l	2	3 o info	4	5	6	1 ivina	2	3	4	5	6 h o F o	7 r+b m	2 illian	3 • • • • • •	4	5	6	1	2	3	4	5	6	7
rec	2 2		living		js nav	e cna	nigeu 2	over 3	ume a	5	6	ssiis ļ	2	3	ormat	ion ai	6	IVING	unings 2	s mai	ınnac	5	6	run m -1	2	3 OI ye	ears a	.go 5	6	1	2	2	4	(5)	6	7
rec			living			duce			of the			but r			fenrin	a var		are n		ntica	d to th			'		3	4	5	0	'		3	4	<u> </u>	0	
1	2		ııvınıç		,s pro 6	1	2	3	A.	5	6	Duti	2	11y 01	гъргии Д	y vai	y and 6	1	2	3	п to tп	5	6	1	2	3	4	5	6	1	2	3	Δ	5	6	7
ide			nimal			s are	adant	ed to	suit t			nmen	t in di	ffere	nt way			adar	tation		/ lead			<u>'</u> า			_									
1	2	3	4	5	6	1	2	3	4	5	6	1	(2)	(3)	4	5	(6)	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	7
rec	ognis	e that	light	appea	ars to	trave	l in sti	raight	lines					Ť			Ť																			
1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	7
use	the id	dea th	at lig	ht trav	els in	strai	ght lir	nes to	expla	ain tha	at obj	ects a	are se	en be	caus	e they	give /	out c	r refle	ect lig	ht int	o the e	eye													
1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	7
exp	lain th	nat we	e see	things	beca	ause l	ight tr	avels	from	light	sourc	ces to	our e	yes o	r fron	n ligh	t soui	ces t	o obje	ects a	nd the	en to d	our ey	es												
1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	7
use	the id	dea th	at lig	ht trav	els in	strai	ght lir	nes to	expla	ain wh	ıy sha	adows	s have	the s	same	shap	e as t	he ob	jects	that c	cast th	nem														
1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	7
ass	ociate	e the l	oright	tness	of a la	mp o	r the	volum	ne of a	a buzz	zer wi	th the	num	ber a	nd vo	ltage	of ce	lls us	ed in t	he ci	rcuit															
1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	7
cor	npare	and g	give r	eason	s for \	/ariat	ions ir	n how	com	poner	nts fu	nctio	n, incl	uding	the b	oright	ness	of bu	lbs, th	ie lou	dness	s of bu	ızzers	and	the o	n/off	posit	ion of	swite	hes						
1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	(4)	(5)	6	1	2	3	4	5	6	1	2	3	4	5	6	7
use			d sym			repre		ng a s	imple			diag																								
1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	1	(2)	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6	7



